Ordering number: EN2749
查询2SK1069供应商

SANYO

No.2749

2SK1069

N-Channel Junction Silicon FET

Low-Frequency
General-Purpose Amp Applications

Applications

- Low-frequency general-purpose amplifiers
- Ideal for use in variable resistors, analog switches, low-frequency amplifiers, and constant-current circuits

Features

- Adoption of FBET process
- Very small-sized package permitting 2SK1069-applied sets to be made smaller and slimmer

Absolute Maximum Ratings at Ta = 25°C

			unit
Drain to Source Voltage	V_{DSX}	40	V
Gate to Drain Voltage	V_{GDS}	−40	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	150	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	−55 to +150	°C

Electrical Characteristics at Ta = 25°C

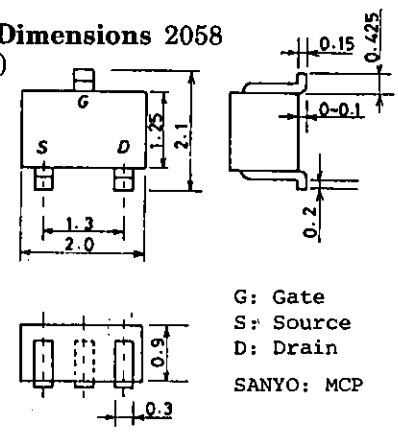
			min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0$	−40			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -20V, V_{DS} = 0$			−1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 10V, I_D = 1\mu A$	−0.3	−0.9	−2.0	V
Drain Current	I_{DSS}	$V_{DS} = 10V, V_{GS} = 0$	※1.2		※12.0	mA
Forward Transfer Admittance	$\|y_{fs}\|$	$V_{DS} = 10V, V_{GS} = 0, f = 1kHz$	4.5	9.0		mS
Input Capacitance	c_{iss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		9.0		pF
Reverse Transfer Capacitance	c_{rss}	$V_{DS} = 10V, V_{GS} = 0, f = 1MHz$		2.1		pF
Noise Figure	NF	$V_{DS} = 10V, Rg = 1k\Omega,$ $I_D = 1mA, f = 1kHz$		1.5		dB

※ : The 2SK1069 is classified by I_{DSS} as follows (unit : mA) :

1.2 3 3.0	2.5 4 6.0	5.0 5 12.0

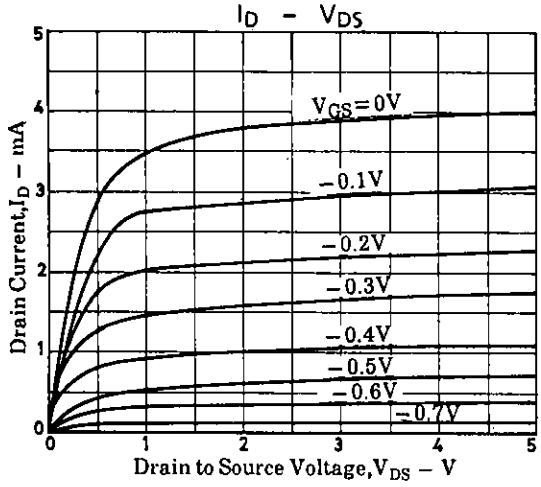
(Note) Marking : FJ
I_{DSS} rank : 3,4,5
●For CP package version, use the 2SK771.

Package Dimensions 2058
(unit : mm)

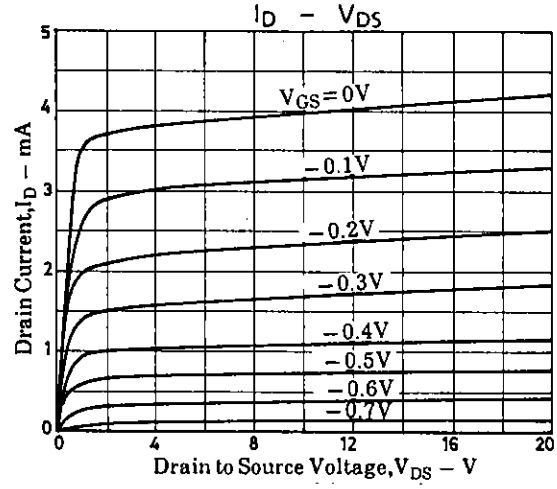


G: Gate
S: Source
D: Drain
SANYO: MCP

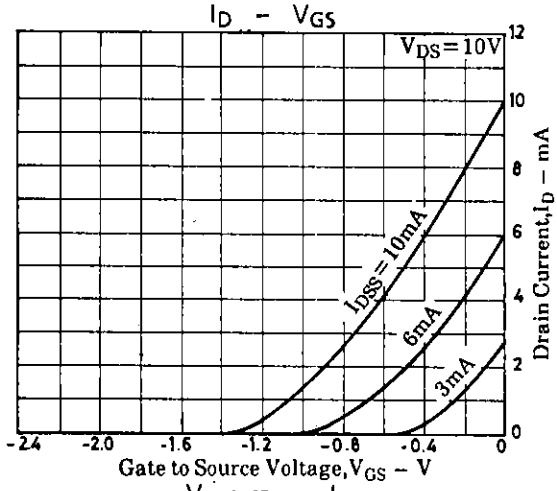
I_D – V_{DS}



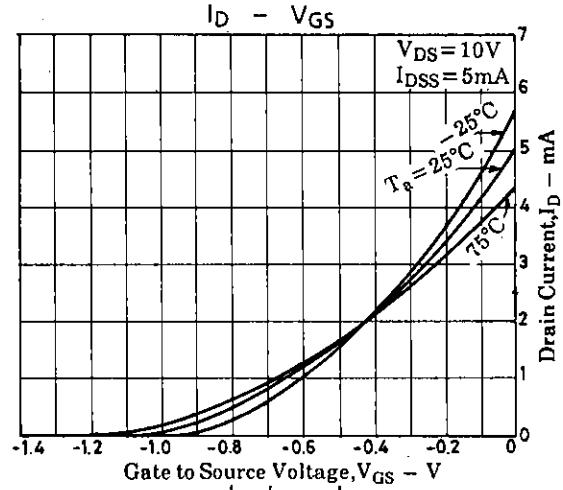
I_D – V_{DS}



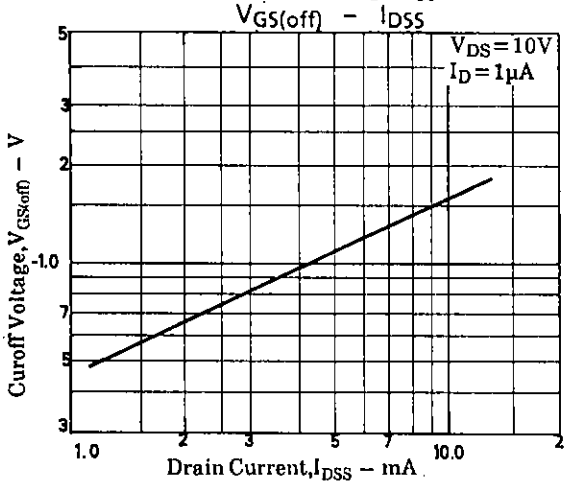
I_D – V_{GS}



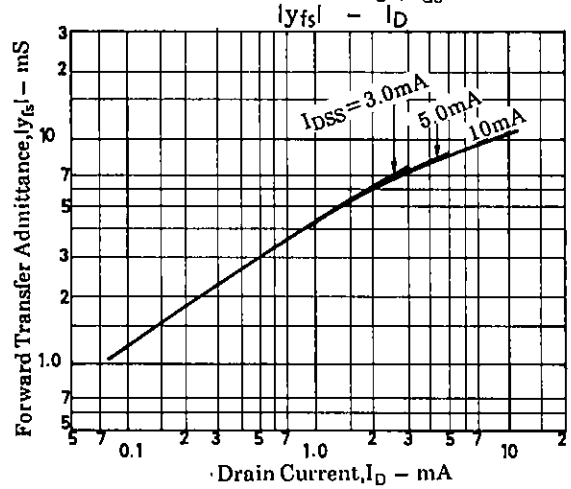
I_D – V_{GS}



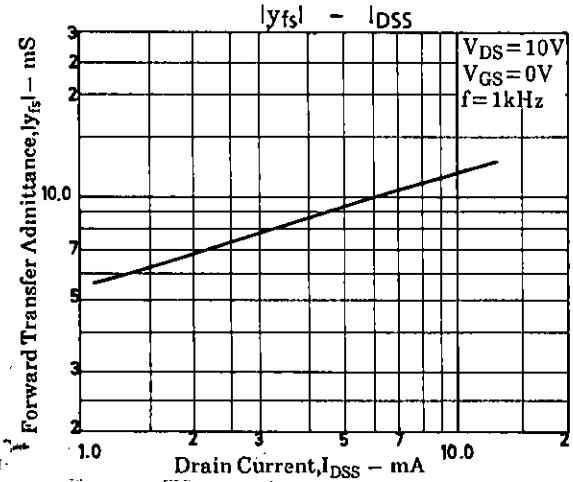
$V_{GS(off)}$ – I_{DSS}



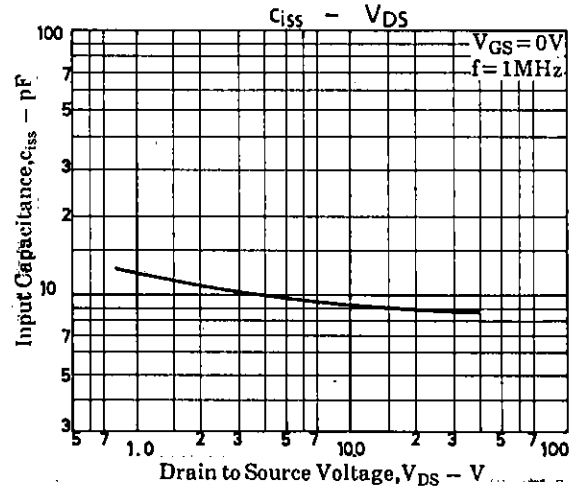
$|y_{fs}|$ – I_D

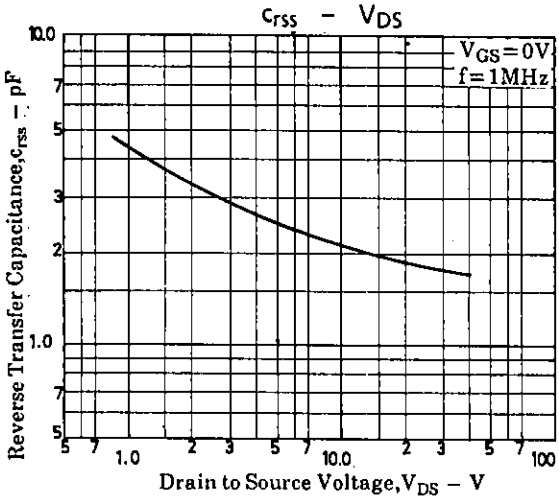


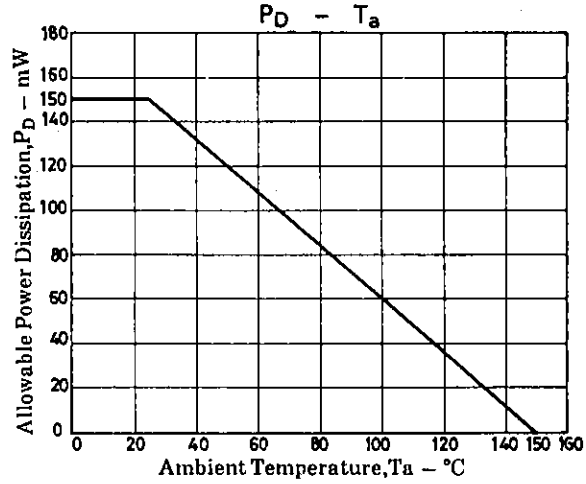
$|y_{fs}|$ – I_{DSS}



C_{iss} – V_{DS}







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